

a digital signal processor (DSP) system coupled to said first system;

a microprocessor system coupled to said DSP system;

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Cont.
said first system in combination with said DSP system and said microprocessor system perform metering, power quality, digital fault recording (DFR) and supervisory control and data acquisition (SCADA) functions;

wherein said first system comprises:

a plurality of transformers, each transformer operating with respect to one phase of an electric circuit; and

a plurality of switching circuits, each circuit coupled to a respective transformer and further adapted to switch to multiple positions depending on whether the current flowing through a primary circuit of a respective transformer is in a metering range or an overcurrent range.

Please add the following new claim:

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--23. (new) The apparatus of claim 2 wherein said power quality is power quality affected by harmonic signals in a nominal range.--

REMARKS

Reconsideration and allowance of this application are respectfully requested.

Currently, claims 2-23 are pending in this application.